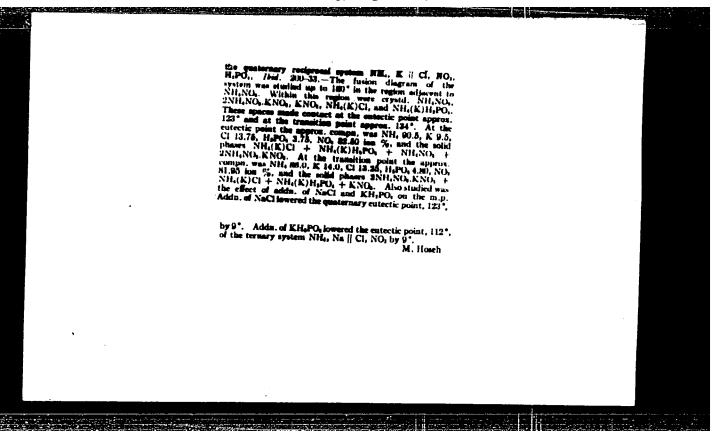
RADISHCHEV, V. P. (DECEASED)	•	PA 54T83	
76. 27. 27. 27. 27. 27. 27. 27. 27. 27. 27	on pass of suggested metalous. Explained the four-dimension system Pb - Sn - Bi - Cd, and the polythermic development of carnellite third point in 54785 1.	R/Physics Equilibrium Diagrams Chraphic Methods Chraphic Methods Physical-Chemical Equilibrium Diagram (ahchev (Deceased), 31 pp (ahchev (Deceased), 31 pp cousses use of four-dimensional diagram cousses use of four-dimensional diagram and orthogonal projection, drawing that of the country of the	

Referral compensate of the fusion diagram of the quaternary reciprent system NH4, K1Cl, NO₃, H₂RO₄. A. G. Bergman, V. P. Radishchev, I. N. Nikonova, V. N. Sveshnikova, E. B. Shternina, and M. A. Yatsuk. Insest. Soldors Fig.-Khim. Anal., Inst. Obshchri i Newg. Kbim., Abad. Nauk S.S.S. R. 18, 157-69(1947):—Studied were the quaternary systems of the 6 salts. In the system KNO₄-KCl was observed the compd. KNO₄-KCl, m. 1879' (decomp.). This compd. had a polymorphic transformation at 285°. At the cutectic point 320° is contd. 6 mol. % of KCl and at the transition point 17.4 mol. % KCl. In the system NH4NO₃-KNO₃ was observed the compd. 2NH4NO₄-KNO₃, m. 170°. There were indications of the existence of a compd. richer in KNO₄. The cutectic of the double salt was at 156.7°, at which point 170.5° it contd. 16.5 mol. % of KNO₄. At the transition point 170.5° it contd. 16.5 mol. % of KNO₄. In the extectic point 170.5° it contd. 12.5 mol. % of KNO₄. In the extectic point 12.5 mol. % of NH4H₂PO₄. The cutectic of the system KNO₃-KH₂PO₄, was at 244.5° and contd. 29.2 mol. % of KH₂PO₄. In the system KCl₃-KH₂PO₄. The cutectic point at 184° when it contd. 12.2 mol. % of KH₄PO₄. The terrary system NH₄Cl-NH₄H₂PO₄ had a cutectic point of the system NH₄Cl-NH₄H₂PO₄ had a cutectic point of the system NH₄Cl-NH₄H₄PO₄ had a cutectic point of the system NH₄Cl-NH₄H₄PO₄ had a cutectic point of the system NH₄Cl 14 mol. % of NH₄Cl 14 mol. % of NH₄Cl 15° and KCl 7.5 mol. % of KnO₅-KH₄PO₄-KKl₄PO₄-KRl₄

KNO₄ KCl formed, it had a transition point at 270° at which it contd. KNO₅ 58.75, KH₂PO₆ 31.75, and KCl 9.5%. The reversible system K, NH₄ || Cl, NO₅ could be studied only up to 200°. This system had 3 nonvariant points: entectic at 131.0° when it contd. NH₄NO₇ 75.2, NH₄Cl 14.25, and KNO₄ 10.85%, a transition point at 145.5° when it contd. NH₄NO₇ 70.15, NH₄Cl 13.0 and KNO₄ 10.85%, and a transition point at 135.0° when it contd. NH₄NO₇ 74.60, NH₄Cl 13.75, and KCl 11.75%. The reversible system K, NH₄|| Cl. H₄PO₄ was studied up to 400°. The liquidus consisted of 2 areas of crystn. of continuous solid solns. of (K, NH₄)Cl and (K, NH₄)-H₄PO₄. The curve of combined crystn, had a min. at 150°. The irreversible system K, NH₄|| NO₄, H₄PO₄ kNO₇ dividing the system into 2 ternary areas. The diagonal has a cutectic at 188° where it contd. 33% of KNO₇. One of the ternaries, KNO₇-KH₄PO₄, nH₄PO₄, had a liquidus divided by a continuous curve into 2 areas of continuous solid solns. (K, NH₄)+PO₄ nH₄KPO₄, NH₄KPO₄, hAd a transition point at 150° where it contd. NH₄87.0, had a transition point at 150° where it contd. NH₄87.0, NO₇8. NO₇9%. None of the studied salts formed by the area of KNO₄.2NH₄NO₉ and the eutectic of 139° at which point (eutectic) the compn. is NH₄83.75, K 6.25, and H₄PO₄9%. None of the studied salts formed hydrates, yet H₄O affected considerably the equil. Passion diagram of



RADISHCHEV, V. P.

chem 3

Chemical Abst.
Vol. 48 No. 4
Feb. 25, 1954
General and Physical Chemistry

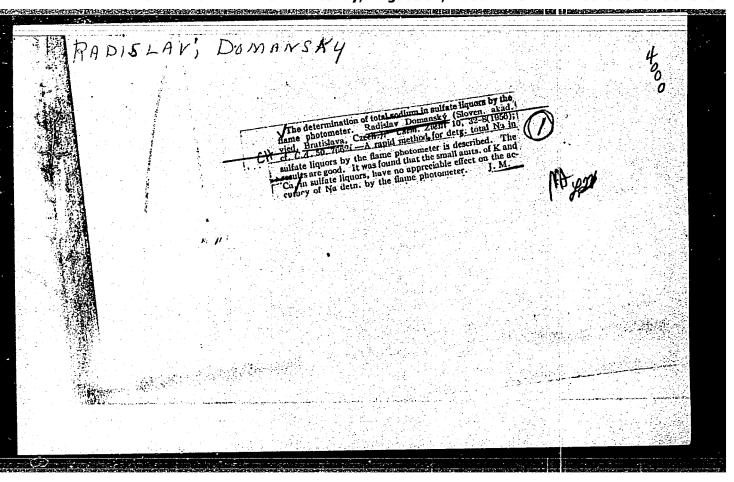
Crystallization volumes in the 5-complex mutual system of fluorides, chlorides, bromldes, and iodides of potassium and sodium. A. G. Bergmarl, V. P. Radishchew and N. S. Dombrovskaya. Doklady Abad. Naul S. S. R. 77, 811-13 (1951).—Data were obtained on the crystn. temps. in this complex system and are presented in the form of a complex triangular prism, having a tetrahedron at each of its 2 ends, one representing the system Nal [F. Cl. Br. 1; the other K [F. Cl. Br. 1] (cf. C. A. 44, 9227i). Results were obtained for each of the 8 vertexes (pure components), 16 edges (binary mixts. of the type NaCl-NaBr), 8 triangular planes (ternary systems of the type Na[Cl. Br. 1], 6 rectangular planes (ternary reciprocal systems of the type Na, K [Cl. Br. 1], the 2 tetrahedral ends, and 4 quaternary prismatic inner surfaces of the type Na, K [Cl. Br. 1]. The interactions among the salts can be summarized by 3 equations: (1) KF + KCl + KBr + 3NaI = NaCl + NaBr + NaF + 3KI; (2) KF + KCl + NaBr + NaI = NaF + NaCl + KBr + KI; and (3) 3KF + NaCl + NaBr + NaI = 3NaF + KCl + KBr + KI.

(Systems (Chemistry))

RADISHCHEV, V.P. Theoretical study of multicomponent reciprocal systems. Izv. Sekt. (MIRA 7:5) fiz.-khim.anal. 22:33-62 153. 1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova

Akademii nauk SSSR.

Radishchev, v.P. Theoretical study of multicomponent reciprocal systems. Izv.Sekt. fiz.-khim.anal. 23:46-60 '53. (MIRA 7:1) 1. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova akademii nauk SSSR. (Systems (Chemistry))



RADISZEWSKI, K.

RADISZEWSKI, K. The chords dividing the perimeter of an oval into two equal parts. p. 93

Vol. 8, 1954
AMNALES, SECTIO A: MATHEMATICA
SCIENCE
Lublin (City) Poland

So: East European Accession, Vol. 6, no. 2, Feb. 1957

```
Leptospira infection of field rodents in a part of Western Hungary. Acta microb. hung. 4 no.2:155-156 1957.

1. Mikrobiologisches Institut der Medizinischen Universitat. Budapest.
(LEPTOSPIROSIS, epidemiol.
in Hungary, etiol. role of infect. in field rodents in an epidemic (Ger))
(RODENTS, dis.
leptospirosis in field rodents, etiol. role in an epidemic in Hungary (Ger))
```

Benavior of thymns transplanted to enoricalizatoic merbranes. In English, p. 07, ACCA STOLACTOA, and appear, Jungary). Vol. 5, No. 1/2, 1994. SC: Fonthly list of Sest European Accessions, (SEAL) DC, Vol. 4, No. 5, Far 1995, Unc).

```
RADITZ, Magdolna; TORO, Imre

The behavior of thymus transplanted into chorioallantoic membrane.

Eiserletes orvostud. 6 no.6:499-506 Nov 54.

1. Budapesti Orvostudomanyi Egyetem Szovet-es Fejlodestani
Intesete.

(THYMOS, transpl.

chorio-allantois in chick embryo, growth & regen.)

(EMBRYO

dhick, thymus growth after transpl. to chorio-allantois)

(TRANSPLANTATION, exper.

thymus to chorio-allantois in chick embryo, growth & regen.)
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```
Manual 17 10036a. (has year Turbomanyos Akademia). Endapest, Hungary, Vol. 9, No. 1, 1958.

Monthly list of East European Accessions (EMAI), IC, Vol. 8, No. 9, Access 1712.

Uncle.
```

POSALAKY, Zoltan; RADITZ, Magdolna; TORO, Imre; RARKA, Tibor

Mucleic acid metabolism in livers transplanted on chorioallantoic membrane. Kiserletes orvostud 9 no.5-6:589-595 Oct-Dec 58.

1. Budapesti Orvostudomanyi Egyetem Szovet-Fejlodestani Intezete.

(LIVER, metab.

nucleic acids in livers cultivated on chorioallantoic membranes (Hun))

(NUCLEIC ACIDS, metab.

liver, metab. in livers cultivated on chorioallantoic membranes (Hun))

RADIUKIEWICZ, S.B.

Research in child and adolescent hygiene in Poland. Cesk. hyg. 4 no.5:313 Je'64

1. Ministerstvo zdravotnictvi, Varsava.

inistry of Tealot (inistrative paravolativi), Tareas Proba, _added oven dis Typiona, To 5, 1964, 1 313

15 (6) AUTHOR:

Radivilin, L. K.

SOV/131-59-9-11/12

TITLE:

News in Brief. Scientific-technical Conference in the Podol'sk

Works of Refractories

PERIODICAL:

Ogneupory, 1959, Nr 9, FF 431-432 (USSR)

ABSTRACT:

This conference was arranged in May 1959 for the purpose of co-ordinating scientific and experimental work concerning the production of pure oxide products and of electric heaters. It was attended by 150 representatives from 40 scientific research organizations and enterprises. D. S. Rutman, Chief Engineer of the Podolisk Works reported on the tasks at the works for the perfection of the technology of exide products and of electric heaters. The following scientists spoke about investigation results and the development in the technology of refractories made of pure cxides: I. V. Vinogradova, E. K. Keler, V. S. Gorodetskiy, D. N. Poluboyarinov, G. P. Kalliga, R. Ya. Popil'skiy, O. M. Margulis. A. I. Avgustinik reported on the technology and the use of sermets in the industry. V. Ya. Pirozhnikov spake about the use of oxide products in the metallurgical industry; and M. S. Koval chanks reported on the

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manufacture of products from viscous compounds. The technology

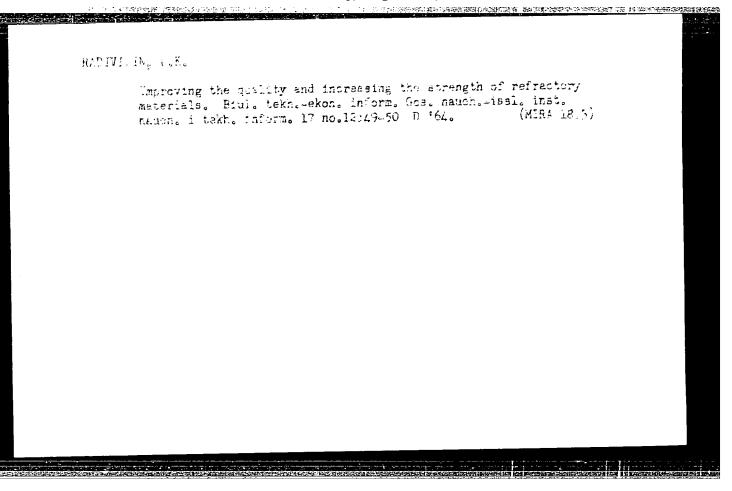
一个一个一个大学是对你们的对比如此的问题的,然后是他们的对比较级,这是是我们的

News in Brief. Scientific-technical Conference in the SOV/37-59-9-11/12 Podelisk Works of Refractiones

of the electric heaters was the object of further reports by L. K. Radivilin, N. I. Voronin, R. I. Bresker, V. L. Balkevich, A. Ya. Artamonov, and P. S. Kishyy. V. V. Baron spoke about investigations in the field of the electric heaters, made of molybdenum-disilicide. The Conference arrived at the appollusion that the development of the technique of high temperatures calls for a continuous perfection of the pure oxide products and of the electric heaters. The research work carried out at present does not meet the actual requirements, and a closer co-ordination of the work is indispensable. It was therefore decided to set up such a potentiation organization.

ASSOCIATION: Podol'skiy zavod ogneupornykh izdelty (Podol'sk Works for Refractories)

Card 2/2



RADIVILKO, S., nachal'nik uchastka No.6.

Be efficient in the use of mine timber. Mast.ugl. 3 no.2:12-13
(MLRA 7:3)
F '54.

(Mine timbering)

RADIVOEVA, L., inzh.

Regeneration of cobalt cake xanthogenate into sodium zanthogenate. Min delo 17 no.5:35-37 My '62.

1. Olovno-tsinkov zamod, Kurdzhali.

RADIVOJ, A.

Radiological decontamination of weapons and technical materials, p. 73

VCJNI GLASNIK (Jugoslavenska narodna armija) Beograd, Yugoslavia. Vol. 12, no. 1, Jan 1958

Monthly List of East European Accessions EEAI LC, Vol. δ , no. δ , June 1959 Uncla.

PURAC, Ljubomir, sanitetski pukovnik, doc. mr. ph.; RADIVOJEVIC, Bogdan, sanitetski potpukovnik, mr. ph.; SARCEVIC, Mirjana, zdravstveni tehmicar.

A simple and precise method for the determination of urea. Vojnosanit. pregl. 22 no.3:162-165 Mr'65.

1. Centralna medicinsko-hemijska laboratorija, Vojnomedicinska akademija u Beogradu.

RADIVOJEVISCH, Dushanka V. and Petar W. Martinovitch

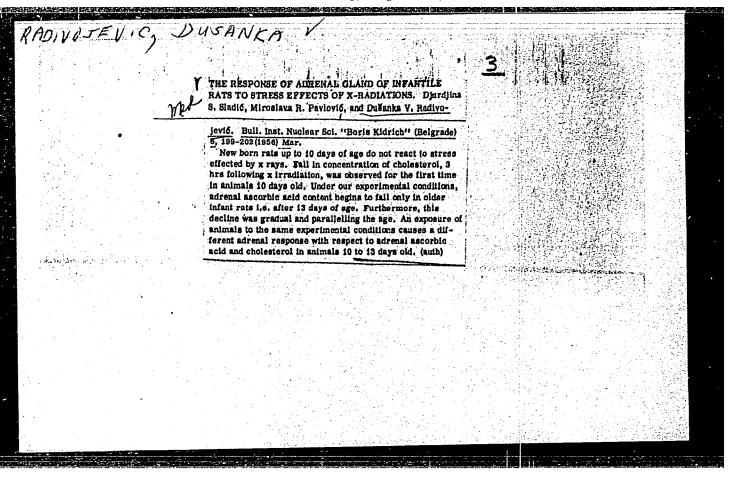
Long-Term transplants of infantile rat pituitaries cultivated in vitro and grafted in the anterior eye chamber of young cats.

Soth are administed with the Boris Kidric Institute for Yuclear Sciences, Fostanski Fah 522, Teograd, Yugo.

So: Nature, Vol. 175, No. 4450, Feb. 12, 1955, Unclas.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001343



SAVKOVIC, Nada V.; RADIVOJEVIC, Dusanka V.; HAJDUKOVIC, Srdan I.

The protective effect of cysteamin upon the postirradiation sterility of young rats exposed to sublethal doses of X-irradiation and somatic changes in the first generation. Bul Inst Nucl 10:107-111 Mr '60.

(EEAI 10:5)

1. Institute of Nuclear Sciences "Boris Kidrich" Laboratory of Radiobiology.

(Aminoethanethiol) (X rays) (Sterility)

(Radiobiology)

SAVKOVIC, Nada V.; RADIVOJEVIC, Dusanka V.; JOVANOVIC, Milan M.; HAJDUKOVIC, Srdan I.

The protective effect of AET upon survival of young rats exposed to sublethal and lethal doses of X-rays. Bul Inst Nucl 10:113-117 Mr '60. (EEAI 10:5)

1. Institute of Nuclear Sciences "Boris Kidrich" Laboratory of Radiobiology.

(Aminoethylthiopseudourea) (X rays) (Radiobiology)

SAVKOVIC, N.V.; RADIVOJEVIC, D.V.; HAJDUKOVIC, S.I.; RADOTIC, M.M.; POPOVIC, S.H.; KARANOVIC, J.; Technical assistance MALCIC, K.; BRADIC, M.

Histological analysis of testes in infant rats irradiated locally or all over the body with X rays. Bul Inst Nucl 12:145-147 0 '61.

1. The Institute of Nuclear Sciences "Boris Kidrich," Department of Radiobiology, Vinca.

SLADIC-SIMIC, S.; PAVIC, D.M.; RADIVOJEVIC D.V.

Use of P32 in the study of the effect of x-rays on functional

Use of P32 in the study of the effect of x-rays on functional activities of the adrenal gland. Prim. radioaktiv. izotop. 2 no.3:22-25 D '61.

1. Institut za nuklearne nauke "Boris Kidric" Vinca.

(RADIATION EFFECTS) (PHOSPHORUS ISOTOPES)

(ASCORBIC ACID) (CHOLESTEROL) (ADRENAL CORTEX FUNCTION TESTS)

(HYPOPHYSECTOMY)

RADIVOJEVIC, D.

Local inhibition of the postirradiation epilation in young rats by cysteamine. Bul sc Youg 7 no.1/2:12 F-Ap '62.

1. Institut "B. Kidric," Vinca, Beograd.

¥

SAVKOVIC, M.; RADIVOJEVIC, D.; HAJDUKOVIC, S.; MALCIC, K.

Effect of local irradiation on the reproductive ability of infant rats. Bul sc Youg 7 no.1/2:13 F-Ap '62.

1. Institut "B. Kidric," Vinca, Beograd.

 \star

LIJUTO, M.

A plantic emplosive and its use for desclition. p. CCC.

VOING-T INTAL MEMBER. Beograd, Yugowlevia. Wel. D, no. 11, Nov. 1905.

Mortily List of Last European Locassians ("TLI) 10, Vol. 5, no. 9, Sept. 1959.

Uncl.

MULYCJE729, .

The evention of emplition p. 520. (HABUIL, Vol. 5, No. 7, July 1957)

So: Monthly List of East Euromean Accessions (MEAL) LC Vol. 6, No. 12, Dec. 1957 Uncl.

RADIVOJEVIC, Milivoje

Livestock breeding in Zagubica and its environs. Glas Srp geogr dr 42 no.2:169-172 '62.

DORDEVIC-CAMBA, D., dr.; RADIVOJEVIC, R.

Considerations on a case of subcapsular hematoma of the liver. Voj. san.pregl., Beogr. 17 no.11:1182-1183 N *60.

1. Medicink fakultet u Beogradu, Prva hirurska klinika.

(HEMATOMA case reports)

(LIVER DISEASES case reports)

. Vegodlav**t**a

1 / .

Stamislav SEKUROV and Radivoje PADIVOJEVIC, First Sergical Clinic of Section factity (I. Hirurska Klintka Medicinakog fakulteta). Head (upcavník) Prof Dr Bogdan KOSANOVIC, University of Belgrade.

"Composion Stenesis of the Stomach."

Delegrado, Szpski Arhiv ze Celokupac Lekarstvo, Vol 90, No 5, May 1952; c. 307-362.

Abstract Exceech summary modified?: Severe gastric (ibro-stenosis lollowed accidental swellowing of very small quantity of quaternary numeries preparation "esopsol" in 25-year-old woman, eventually coquiring subtotal subdiaphragmatic gastrectomy with gastro-hundanal anastomosis, slow recovery because of refractory anemia. The pertinent literature is reviewed. Two rentgenograms, 2 photographs of operative apeciates, 11 Wastern references.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CI

CIA-RDP86-00513R0013439

MILOSEVIC, Bosiljka; DINULOVIC, Dusan; RADIVOJEVIC, Radivoje

Apropos of a case of external migration of the ovum. Srpski arh. celok. lek. 91 no.3:323-326 Mr '63.

1. Ginekolosko-akuserska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Bosiljka Milosevic I hirurska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Bogdan Kosanovic.

(OVUM) (FALLOPIAN TUBES) (OVARY)
(PREGNANCY, TUBAL)

RACIVOJEVIC, R.

"Maintenance of impregnated railroad ties" (p.88)

ZELEZNICE. (Jugoslovenske zeleznice) Beograd. Vol. 10. no. 3, March 1954

SO: East European Accessions List. Vol. 3, no. 8, August 1954

giser:		j.
	RADIVCJEVIO, Radmile (Eng.)	
	"The use of mechanical methods for better impregnation of railway sleepers"	
	SO: ZELEZNICE No. 6, Year XI, June1955	

RADIVESVIC, R.

HADIVCJaVIC, R. New standards for cut pine used in railroad cars. p. 374.

Vol. 11, Ao. 8, Aug. 1955 ZHIEZHICE TECHTCICGT Eecgrad, Yugoslavia

So: East European Accessions, Vol. 5, May 1956

Enging cut pine for repairing railroad cars. p.336. ZELEZNICS.
Beograd. Vol. 11, no. 9, Sept. 1955.

SOUNCE: East European Accessions List (EEAL), Library of Congress Vol. 5, No. 6, June 1956

RADIVOJEVIC, R.

Using plywood in railroad cars. p. 26. (Zeleznice, Vol. 13, No. 4, Apr. 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc. Vol. 6, No. 8, Aug 1957, Uncl.

RADIVOJEVIC, R.

Use of mechanical methods for better impregnation of railroad ties. p. 220 ZELEZNICE. Beograd. Vol. 11, no. 6, June 1955

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 2, Feb. 1956

RADIVOJEVIC, Radmile, inz.

Impregnation of mondried railroads sleepers. Zeleznice Jug 15 no.8:19-23 Ag 159.

RADIVOJEVIC, R., dipl. inz.

A new variant of the application of the double Riping method in the impregnation of beech ties. Zeleznice Jug 20 no.5: 30-32 My 64

RADIVOJEVIC, Radmilo, ing. (Beograd)

Modern methods of the impregnation of spruce and fir electric mission poles. Tehnika Jug 16 no.12:2203-2208 161.

1. Savetnik Generalne direkcije Jugoslovenskih zeleznica, Beograd.

Suclear wearens and military tecining. p. hrs. Yourney Madell (1977). Peor red.

Yol. 3, No. 7, July 1955

School: East European Accessions List, (FEAL), Library of Congress, Vol. 4, No. 12, December 1955

Results of radiological treatment of neoplasms of the uterine neck and of parametrium. Srpski arh. celok. lek. 85 no.5:522-534 Mar 57.

1. Radioloski institut Medicinskog fakulteta u Beogradu. Upravnik: Bosnjakovic.

(CERVIX NEOPIASMS, ther. radiother.)

(UTERUS NEOPIASMS, ther. radiother. of cervix & parametrium cancer (Ser))

GROZDANIC, Sima, dr.; RADIVOJEVIC, Vidoje

Appearance of polygyny in Polistes gallicus. Zbor prir Mat srp 25:51-57 '63

1. Institute of Biology, Belgrade.

CELAP, Milenko B.; RADIVOJEVIC, Zivota M.

A new method for the separation of the elements of the analytic group I by the paper chromatography. Gl.hem.dr. 23 /24 no.1/2: group I by the paper chromatography. Gl.hem.dr. 23 /24 no.1/2: (SEAI 9:5) 59-66 '58/59.

1. Faculaty of Science, Institute of Chemistry, Beograd. (Methanol) (Silver) (Nitric acid) (Thallium) (Chromatography) (Lead) (Mercury)

CEMERIKIC, Mihailo; KOSTIC, Petar, dr., prof.; RADIVOJEVIC, Zoran

A case of hemorrhagic syndrome during the course of labor caused by premature separation of the placenta and afibrinogenemia. Srpski arh. celok. lek. 89 no.9:1055-1058 S '61.

1. Ginekolosko-akuserska bolnica u Beogradu. Upravnik: prof. dr Petar Kostic.

(AFIBRINOGENEMIA in pregn) (LABOR compl)
(ABRUPTIO PLACENTAE compl)

RADIYEVSKIY, M., inzh.-ekonomist

Method for calculating norms for unfinished production in the machine-tool industry. Pin.SSSR 37 no.3:54-58 Mr '63. (MIRA 16:4)

(White Russia--Machine-tool industry--Production standards)

```
Radkevich, A. I. - "The catlook in the development of cultivating the cak silkworm in the laboracian LSE," Boblady Jesoyuz, akad. r.-kh. nauk in. Lenia, 1944,
Insue A. p. MI-AA

So: 8-.355, lA August 53, (Lotopis 'Lhurmal 'Lykh Statey, No. 15, 1949.)
```

USSR / Farm Animals. Silkworm.

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Abs Jour: Ref Zhur-Biol., No 9, 1958, 40576.

Author : Radkevich, A. I.

Inst : Not given.

Title : Experience in the Industrial Rearing of the Oak-Feeding Silkworm in the Kolkhozes of Poles'

ye of the Belorussian SSR.

Orig Pub: Uch. zap. Vitebskiy gos. ped. in-t, 1956,

vyp. 5, 95-109.

Abstract: Great potentialities exist in the Belorussian

Poles'ye for the development of sericulture, because in this region vast areas, overgrown with dwarf oak scrub, which is a feeding base for the larvae of the oak-feeding silkworm, are still preserved. The climatic conditions

Card 1/2

80

RADKEVICE, A.I. Weevils of the family Bruchidae occurring in White Russia as pulse pests. Vests! AN RSSR Ser. bilal. nav. no.2:111-114 163 (MIRA 17:3)

RADKEVICH, A.K.

Ways for encouraging active participation of students in physics lessons. Fiz. v shkole 20 no.5:88-89 S-0 '60. (MIRA 13:11)

 2-ya srednyaya shkola, g.Nizhnyaya Tura. (Physics--Study and teaching)

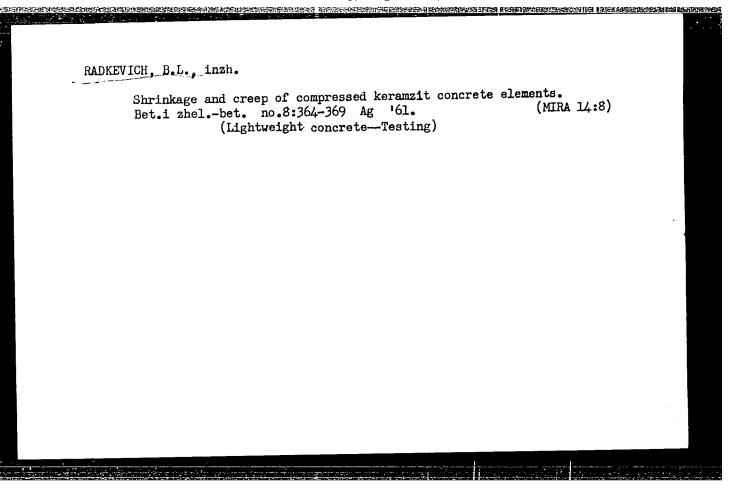
RADKEVICH, A.N.

Discurs the communist principles in training students of medical schools. Fel'd. i akush. 28 no.11:54-58 N'63 (MIRA 16:12)

l. Iz Meditsinskogo uchilishcha, Pervomaysk, Nikolayevskaya oblast $^{\text{!`}}$.

RADKEVICH, A.P. Connection between theory and practice in the learning process. Fel'd. i akush. 26 no.10:54-59 0 '61. (MIRA 14:11)

1. Pervomayskoye meditsinskoye uchilishche. (MEDICINE_STUDY AND TEACHING)



IVANOV-DYATLOV, Ivan Gavrilovich, doktor tekhn. nauk, prof.; AGEYEV,

Dmitriy Nikolayevich; ZVEREV, Sergey Aleksandrovich;

KONOVALOV, Stepan Vasil'yevich; KURASOVA, Galina Fanteleymonovna;

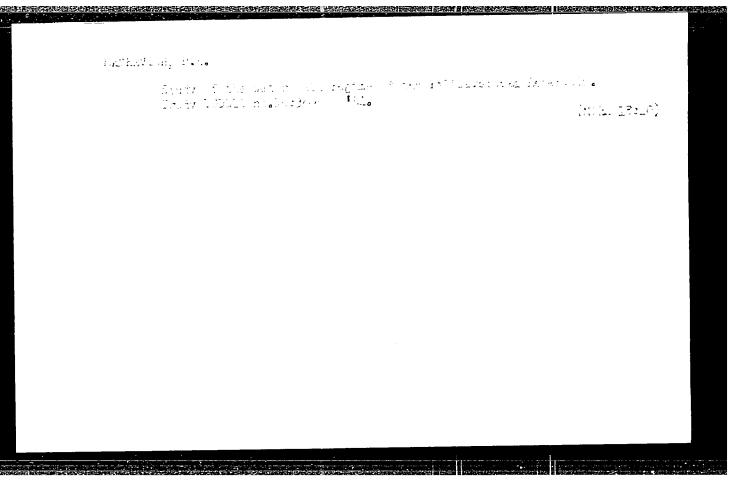
POCHTOVIK, Gennadiy Yakovlevich; RADKEVICH, Boris Leonardovich;

SHCHEKANENKO, Rostislav Arkad'yevich; GORLOVA, N.B., red.;

BODANOVA, A.P., tekhn. red.

[Using claydite concrete in road and bridge construction] Primenenie keramzitobetona v dorozhno-mostovom stroitel'stve. [By] I.G.Ivanov-Diatlov i dr. Moskva, Avtotransizdat, 1963. 271 p. (MIRA 16:12)

(Lightweight concrete) (Bridges, Concrete) (Favements, Concrete)



BRYUZGINA, G.; GAYEVOY, Ye., kand.sel'skokhoz.nauk; DINARIYEVA, G.; RADKEVICH, D.; TRUDOLYUBOVA, Ye.; MASHKOV, V., kand.sel'skokhoz.nauk; PANYUKIN, I,, kand.tekhn.nauk. [deceased]

New methods of preservation of fur and garment sheep pelts and mechanization of their processing. Mias.ind.SSSR 33 no.5:15-21 '62. (MIRA 15:12)

l. Vsesoyuznyy nauchno-issledovatel skiy institut myasnoy promyshlennosti (for Bryuzgina, Gayevoy, Dinariyeva, Radkevich, Trudolyubova). 2. Nauchno-issledovatel skiy institut mekhovoy promyshlennosti (for Mashkov, Panyukin). (Hides and skins) (Assembly-line methods)

VIRNIK, D.I., starshiy nauchnyy sotrudnik; ARTEMOVA, N.N., mladshiy nauchnyy sotrudnik; RADKEVICH, D.P., mladshiy nauchnyy sotrudnik; SEROCHKINA, V.P., mladshiy nauchnyy sotrudnik; KUZNETSOV, V.P., mladshiy nauchnyy sotrudnik; TRUDOLYUBOVA, G.B., mladshiy nauchnyy sotrudnik; SPIRIN, Ye.T., starshiy inzh.

Development of a new technology and mechanized continuous production line for the manufacture of edible gelatin from collagen-containing pigskins. Trudy VNIIMP no.15: 84-94 '63. (MTRA 17:5)

GAYFVOY, Ye.V., kand. sel'skokhoz. nauk; PANTUKIN, i.i., kand. tekho.
nauk; MASHKOY, A.N., kand. sel'skokhoz. nauk; DINARIYEVA, G.F.,
mladshiy nauchnyy sotrudnik, TRULOLTUBOVA. G.B., mladshiy
nauchnyy sotrudnik; RALKEVICH, I.P., mladshiy nauchnyy
sotrudnik; ERYOZGINA, G.A., mladshiy nauchnyy sotrudnik

Use of formaldehyde compounds for the conservation of fur
and garment sheepskins. Trudy VNIIMP no.15:24-43 '63.

(MIRA 17:5)

GAYEVOY, Ye.V., kand. sel'skekhoz. nauk, VAUSPHMAN, B.A. inzhenertekhnolog; RADKEVICH, D.P., starshiy inzhener; TRUKOLYUBOVA,
G.B., mladshiy nauchnyy sotrudnik; BEYEZCINA, G.A., Hadshiy
nauchnyy sotrudnik; GEGUZINA, I.Yu., mladshiy nauchnyy
sotrudnik; BLYANSKAYA, N.V., tekhnik

New method for the conservation treatment of raw leather
in a mobile apparatus. Trudy WNIIMP no.15:67-78 '63.

(MIRA 17:5)

mathry Notudnik; THECUTIBOVA, G.B., mladshiy nauchny; sotrudnik; PHENYEMS, M., mladshiy nauchny; sotrudnik; PHENYEMS, M., mladshiy nauchny; sotrudnik; ERYEGINA, G.A., mladshiy nauchny; sotrudnik; ERYEGINA, G.A., mladshiy nauchny; sotrudnik; Erfficiency of the use of formaldehyde compounds for the conservation of fur and coat sheepakina during long storage of the raw materials. Trudy VW Hd ab.15.43.55 hd., (MHA 15)

RADKEVICH, F.A.

Reducing the percentage of discards is an important potential for an increase in metal production. Metallurg me.6:1-3 Je \$56. (MLRA 9:9)

1.Nachal'nik Glavnoy inspektsii pe kachestvu produktsii Ministerstva chernoy metallurgii SSSR.

(Rolling (Metalwork))

RADKEVICH, I.

Developing the raw material supply of cement industries.

Stroi. mat. 2 no.11:16-19 N '56.

1. Glavnyy gornyy inzhener Glavzapadtsementa.

(Cement industries)

<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>	,	, 7. %, a	id Paradisans of the	, .		
	"A Restron at the Liton	uelsetor with s for rease 0	the Weamania onference, Jes	al Interrupter neva, Swit Erl	," a sper and, 1755	r presinted	
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PLANTANCE, I. A.: "An analysor of flighttime for a neutron spectrometer, and an investigation of the complete cross sections of certain elements in the energy range 0.5-500 electron volts." Ac.d Sci USCR. Moscow, 1956 (Dissertation for the Degree of Candidate in Physiconathematical Science)

Source: Knizhnay letopis' No. 28 1950 Noscow

VLADIMIRSKIY, V.V.; RADKEVICH, I.A.; SOKOLOVSKIY, V.V.

[Neutron spectrometer with a mechanical beam chopper] Neitronnyi spektrometr s mekhanicheskim preryvatelem. Moskva, 1955. 32 p. (MIRA 14:7)

(Spectrometer) (Neutrons)

SUBJECT AUTHOR

USSR / PHYSICS

CARD 1 / 2

PA - 1802

RADKEVIČ, I.A., VLADIMIRSKIJ, V. V., SOKOLOVSKIJ, V. V.

TITLE

The Measuring of the Total Cross Sections of Pd.Os, Ir, Mc, In, J. Ta,

Th, U238 for Resonance Neutrons.

PERIODICAL

Atomnaja Energija, 1, fasc.5, 55-70 (1956)

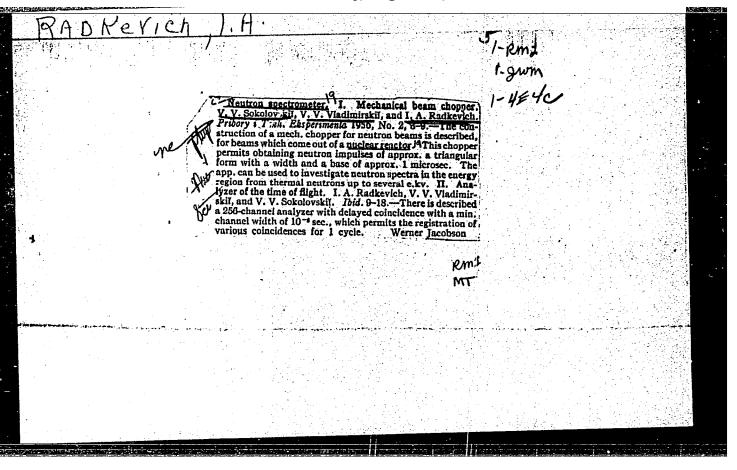
Issued: 1 / 1957

Working out of results: The energies of the neutrons were measured by the method of flying-through time. The parameters of the levels were determined from the measured penetrability curves of samples of different thickness according to the "area" method. From the course of the experimental curve it is possible to determine the neutron width $\lceil n \rceil$ by making use of the inter-

Results: Palladium: The levels at 13,25 and 32 eV were treated according to the method of the "surface of two samples". The resonance width determined from and averaged over the resonances 13 and 32 eV amounted to (220 + 63) mV and was then used for the computation of the other levels. As palladium is an element with several isotopes, the unknown relative weights of the isotopes go into the results. Osmium: The radiation width for the levels at 10,3; 18,8 and 22 eV was determined. The average width of these levels is 67 mV and this value was used for the computation of the other levels. The data for all investigated resonances are shown in a table. The authors, moreover, observed levels at 109, 125, 144, 166 (weak), 208 and 333 eV. Indium: The authors were able to

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001343



INSTRUMENTATION: SPECTROMETERS

"Neutron Spectrometer. II. Time of Flight Analyzer", by I.A.
Radkevich, V.V. Vladimirskiy, and V.V. Sokolovskiy, Pribory i Tekhnika
Eksperimenta, No 2, September-October 1956, pp 9-18.

Description of a 256-channel analyzer of delayed coincidences with minimum channel width of 10^{-6} seconds. This permits recording of several coincidences per cycle.

Card 1/1

A 641 1

**FAROY, A.A., RADRIWICH, I.A., SOKOLOVEKIY, V.V., VLADIMIESELY, V.V. (Acad. Sci. USSR)

"Interactions of Slow Neutrons with Nuclei" (review lectured)

paper submitted at the A-U Conf. on Nuclear Reactions in Medium and Low Snergy Physics, Moscow, 19-27 Nov 57.

RADKEVICH, I. A.

"Measurements of the Total Effective Cross Sections of U²³³, U²³⁵, and Pu²³⁹ and the Fission Cross Section of U²³⁵ for Resonance Neutrons," by V. V. Sokolovskiy, V. V. Vladimirskiy, I. A. Radkevich, and A. A. Panov, Atomnaya Energiya, Vol 2, No 2, Feb 57, pp 129-139

This work presents measurements of the total cross sections of U^{233} , and Pu^{239} and the fission cross section of U^{235} .

Measurements were made with a mechanical neutron spectrometer having a resolving power of 0.1-0.2 microsecond/meter for neutron energies from 3-5 to ~500 ev. The resonance parameters are computed up to energies of 30-50 ev "beyond which the levels are not resolved."

Neutron widths are determined for the levels; the total widths are determined "for sufficiently strong levels where the error in determining the widths was not greater than ~50%."

SUN1- 1345

RADKEVICH, I. A.

The ratio of fission width to total width was determined for U^{235} resonances in the 2.5-20 ev energy range.

The article states that the results of the experiments may be utilized for calculating reactors and constructing various models of the nucleus.

Wu Ch'i-k'ua and San Ch'i-lin did the mathematics for the research, and A. S. Kronrod developed the statistical methods used.

Acknowledgement was made to Dr D. J. Hughes and Dr P. A. Eaglestaff "for making it possible for us to compare our results with unpublished data of Brookhaven National Laboratory and the laboratory at Harwell...." (U)

SUM. 1345

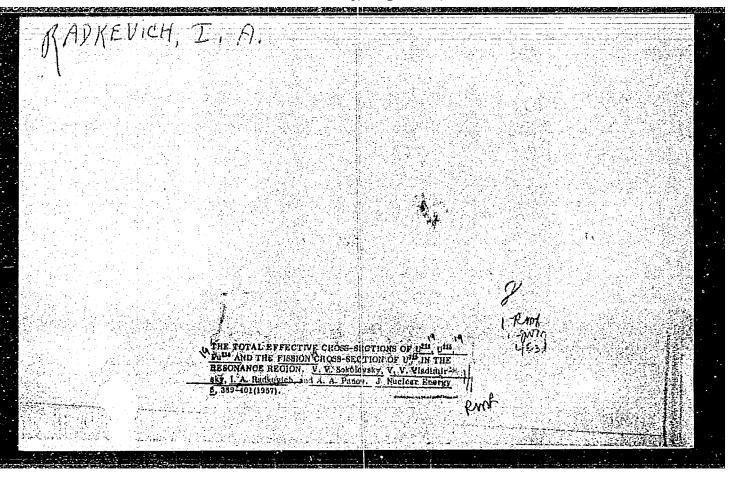
VIADIMIRSKIJ, V.V. [Vladimirskiy, V.V.]; PANOV, A.A.; RADKEVIC, I.A. [Radkevich, I.A.]; SOKOLOVSKIJ, V.V. [Skolovskiy, V.V.]

a subsequent contraction of the second of the

Interaction of slow neutrons with nuclei. Jaderna energie 3 no.11:370-384 N *57.

JAUTHORS: Vladimirskiy, V.V., Panov, A.A., Radkevich, I.A., 89-11-7/9 Sokolowskiy, V.V. TITLE: The Interaction of Slow Neutrons with Nuclei.Review.(Vzaimodeystviye meddlennykh neytronov s yadrami. Obzor) PERIODICAL: Atomaya Emergiya, 1957, Vol. 3, Nr 11, pp. 4-4-458 (USSR) ABSTRACT: Everything known from more than 100 Russian and foreign original works on the interaction between slow neutrons and nuclei is shortly discussed here. The following items are discussed in particular: Different velocity selectors. Multichannel impulse analyzers. Neutron spectrometers. Comparison between the experimentally found and theoretically calculated widths of the neutron resonance levels. Determination and comparison of the level widths of the fission resonances. The following data are given on large neutron meters at present in operation in the USSR: Site ⇒t L △t/L Note Ms M a) crystal spectrometer Pyrometric curved quartz crystal Laboratory with the planes $(13\overline{4}0)$ and $(10\overline{1}0)$ Card 1/2 b) neutron selectors on accelerators

	Pyrometric Laboratory	2	16	o,12	cyclotron		
		c) me	chanical in	terrupter			
		Institute for Atomic Energy 5		0,8	transverse rotor		
	11	3,2	26,5	0,12	longitudinal rotor		
	Pyrometric Institute	1,3	19	0,07	transverse rotor.		
	There are 16 Slavic.	figures	, 2 tables	and 109 ref	erences, 30 of which are		
AILABLE:	Library of C	ongress.					



"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001343

RAPATERA IZ A.

AUTHORS:

Vladimirskiy, V. V., Panov, A. A.,

SOV/89-5-1-8/28

Radkevich, I. A., Sokolovskiy, V. V.

TITLE:

Measurement of the Fission Cross Section of U233 and of the Total Cross Section of Arsenic, Vanadium, Tantalum, and Bismuth (Izmereniye secheniya deleniya U-233 i polnykh effektivnykh

secheniy mysh'yaka, vanadiya, tantala i vismuta)

PERIODICAL:

Atomnaya energiya, 1958, Vol. 5, Nr 1, pp. 69-70 (USSR)

ABSTRACT:

Cross sections were measured by means of a neutron spectrometer with mechanical selector (as described by reference 1):

1.) Resonance parameter of U²³³.

E _o , eV	1,47	1,78	2,23	3,6	4,5	6,8	10,4	12,7	15,4	+)
ਨ _o ਸ਼ਿ in b.eV	60 <u>±</u> 15	195±15	58 <u>+</u> 4	1 3± 6	4,0 <u>+</u> 1,5	73±8	135 <u>+</u> 12	103 <u>+</u> 8	41 <u>+</u> 4	++)

Card 1/3

Measurement of the Fission Cross Section of U^{233} and of SOV/89-5-1-8/28 the Total Cross Section of Arsenic, Vanadium, Tantalum, and Bismuth $\int_{\mathbf{f}}$ 57+30 in mV +) 16,4 19,0 ++) 96±15 90±9 +++)75+50 2.) No resonance was found in vanadium between 10 and 100 eV. 3.) The resonance in tantalum at 35 and 39 eV is not a doublet but only 1 level at 35 eV. 4.) In bismuth resonances were found at 800, 2300, and possibly also at 3100 eV. The following parameters were calculated for the 800 eV resonance: $\Gamma = 10 \pm 3$ eV, $\gamma = 7 \pm 5$ eV, $\Gamma_{\rm n}=3\pm2$ eV. There are 2 tables and 10 references, 5 of which are Soviet. SUBMITTED: July 25, 1957 Card 2/3

Measurement of the Fission Cross Section of U^{233} and of the Total Cross Section of Arsenic, Vanadium, Tantalum, and Bismuth

- 1. Uranium--Fission 2. Arsenic--Properties 3. Vanadium--Properties
- 4. Tantalum--Properties 5. Bismuth--Properties 6. Neutron cross section -- Measurement

Card 3/3

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S/120/60/000/03/025/055 E041/E521

AUTHORS: Sokolovskiy, V.V., Rukolayne, G.V., Radkevich, I.A. and

Rezvyakov, N.S.

High Resolution Counting Circuits TITLE:

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No 3,

pp 92-93

ABSTRACT: Two counters are described which are very stable and are used in multichannel time-of-flight analysers # Fig 1 shows a binary unit based on the 6Zh9P valve including driver and output stages. The driving pulse amplitude must lie between 8 and 10 volts and last 0.1 µsec. The rise time is about $0.02~\mu sec$ and the delay is exponential. The correcting The upper frequency limit is 7 Mc/s. inductances shown are wound over standard high-value resistances. Fig 2 is a simpler circuit using 6N6P valves. Anode triggering is used at -40 volts. Operation is stable against a 20-25% variation in all parameters. The resolving time is about 0.3 µsec. The upper frequency limit is at least 1 Mc/s. The output Card 1/2 voltage is a 110-120 V pulse. The triggering voltage

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S/120/60/000/03/025/055 E041/E521

High Resolution Counting Circuits

may be reduced to 20 V if a resolution of 1 µsec is acceptable. If the cathode resistance is increased to 8 kilohms, 6NIP valves may be used, giving a 2 µsec resolution. There are 2 figures.

SUBMITTED: April 29, 1959



Card 2/2

RADKEVICH, I.A.; REZVYAKOV, N.S.; SOKOLOVSKIY, V.V.

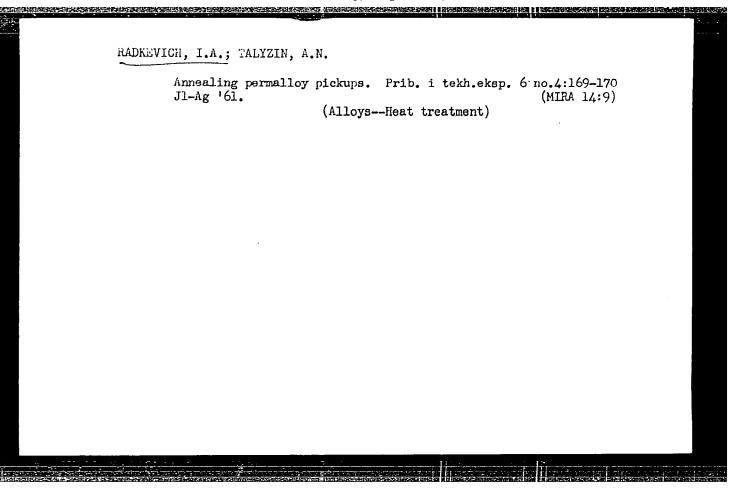
Diode amplitude limiter. Prib. i tekh. eksp. no.3:95-96

My-Je '6C. (MIRA 14:10)

(Electronic instruments)

RADKEVICH, I.A.; SOKOLOVSKIY, V.V.; REZVYAKOV, N.S.

Reducing the coating background of a magnetic drum. Prib. i
(MIRA 14:10)
tekh. eksp. no.3:144 My-Je '60.
(Magnetic memory (Calculating machines))



"ADIGITICI", I. A.

3/120/62/000/004/030/047 E140/E420

AUTHORS: Kulakov, F.M., Kardash, A.A., Bobovikov, R.S., Colldin, L.L., Kleopov, I.F.,

Kulakov, F.M., Kardash, A.K., Bullakov, I.F., Spevakova, F.M., Gol'din, L.L., Kleopov, I.F., Koshkarev, D.G., Radkevich, I.A., Sokolovskiy, V.V., Sharnov, B.I.

7年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年,1985年

TITLE: The system for magnetic field correction of the

proton synchrotron.

PERIODICAL: Pribory i tokhnika eksperimenta, 7 no. 4, 1962, 158-167

TEXT: The magnetic field configuration in the strong-focused 7 GeV machine is adjusted by a series of correction systems 7 GeV machine is adjusted by a series of correction systems permitting the betatron oscillation frequency to be controlled and resonance disturbances of the orbit to be climinated. The system used for field correction is described together with the system for switching and exciting the windings, with experimental data on their effect on the beam. The windings permit adjustment of the magnetic field decay index, the azimuthal asymmetry of the field, compensation of the nonlinear distortion of the field with saturation, correction of the position of the neutral plane and the differences between the focusing and Card 1/2

S/120/62/000/004/030/047 E140/E420

The system for magnetic field ...

defocusing groups of blocks. There are two sets of these windings, the "gradient" and the "nonlinear" windings on the magnetic pole surfaces facing the chamber. Measured data prosented in the article indicate the effectiveness of the corrections in stabilizing the betatron frequency. However, it is considered that further adjustments will be made in the course of the work. There are 15 figures.

ASSOCIATIONS: Institut teoreticheskoy i eksperimental'noy fiziki

GKAE (Institute of Theoretical and Experimental

Physics GKAE)

Nauchno-issledovateliskiy institut elektrofizicheskoy apparatury GKAE (Scientific Research Institute for

Electrophysical Apparatus GKAE)

SUBMITTED:

March 29, 1962

Card 2/2

11.77

S/120/62/000/004/034/047 E140/E420

AUTHORS:

Talyzin, A.N., Gol'din, L.L., Trokhachev, G.V., Radkevich, I.A., Mozalevskiy, I.A., Sokolovskiy, V.V., Kukavadze, G.M., Belozerova, L.A., Borisov, V.S., Bysheva, G.K., Veselov, M.D., Goryachev, Yu.M.

TITLE:

Investigation and correction of the magnetic characteristics of the proton synchrotron C-blocks at

small fields

PERIODICAL: Pribory i tekhnika eksperimenta, no.4, 1962, 184-192

TEXT: Comparative measurements are made on the C-blocks in the residual field (\sim 35 0e) the injection field (87 0e) and the field at the beginning of the acceleration cycle (117 0e). The iron for the magnet blocks was not pre-selected. This had no substantial effect on differences in the dynamic characteristics of the C-blocks, but the differences in residual field constituted 4.25% on the average and reached up to 10%. The mean-square deviation of the magnetic induction was 4.25%, and 1.4% in the injection field, thus exceeding by far the allowable tolerances. The variations were compensated by shunt resistances Card 1/2

S/120/62/000/004/034/047 E140/E420

Investigation and correction ...

and by changing the order of the blocks. The present article is concerned with the measurement of the magnetic field intensity and its gradient in the residual field, the compensation by resistances connected across compensation windings, compensation of C-blocks at injection, with investigation of the dynamic characteristics. The equilibrium orbit in the synchrotron has not yet been studied in detail but it is found that either as a result of these corrections or the arrangement of the blocks, the loss of particles is fairly small. There are 7 figures and 1 table.

ASSOCIATIONS: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental

Physics GKAE)

Nauchno-issledovatel'skiy institut elektrofizicheskoy

apparatury GKAE (Scientific Research Institute

for Electrophysical Apparatus GKAE)

SUBMITTED: March 31, 1962

Card 2/2

S/120/62/000/004/035/047 E192/E382

AUTHORS: Luzin, V.N., Radkevich, I.A. and Sokolovskiy, V.V.

TITLE: An instrument for continuous measurement and recording of slowly-changing magnetic fields

PERIODICAL: Pribory i tekhnika eksperimenta, no. 4, 1962,

TEXT: A block schematic of the instrument is shown in Fig. 1. A permalloy pick-up (K.N. Shorin, Yu.N. Metal'nikov, G.M. Bozin and L.V. Yeremin, PTE, no. 4, 1958, 25) consisting of a thin permalloy wire 2 is situated inside a balancing coil 1; a signal coil 3 is also wound on the permalloy wire. The pick-up is situated inside an alternating magnetic field produced by means of an audio-generator 5 by using an additional coil 4; the field has an amplitude of 5 Oe and a frequency of 10 kc/s. The signal from the pick-up is applied to an electronic-control system 6, whose output voltage controls an automatic potentiometer 7, the balancing coil 1 being connected into the slide-wire circuit of the potentiometer. The balancing current of the coil 1 is controlled by the Card 1/2

5/120/62/000/004/035/047 E192/E382

An instrument for

potentiometer and the balancing field is made equal to the measured field. A detailed description of the electroniccontrol circuit is given. The potentiometer is a laboratory instrument, type 60-102 UNA (BP-102 TsLA). The instrument can measure the field with an error of + 0.03 Oc. If its fullscale deflection is 4.5 0e, the instrument can record fields varying at a rate of less than 4.5 Oc/sec. There are 5 figures.

Institut teoreticheskoy i eksperimental'noy ASSOCIATION:

fiziki GKAE (Institute of Theoretical and

Experimental Physics, GKAE)

SUBMITTED:

September 26, 1961

Fig. 1:

- U const

Card 2/2

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S/120/62/000/004/036/047 E039/E420

AUTHORS:

Luzin, V.N., Radkevich, I.A., Sokolovskiy, V.V.

TITLE:

The change in field in C-magnets of the proton

synchrotron after the completion of cycle

PERIODICAL: Pribory i tekhnika eksperimenta 7 no.4, 1962, 196-199

TEXT: The magnetic field in the interval between cycles is measured by means of a self-recording magnetometer using a permalloy probe. The operation of the magnetometer is based on automatic compensation of the measured fields. A description of the instrument is given. At a given moment of time t the measured value of the field B(t) is given by

$$B(t) = k_d I_d + k I(t)$$
 (1)

where k_d , k, I_d and I correspond to calibration coefficients and currents in the auxiliary and compensating coils of the probe. Experimentally determined values of coefficients are $k_d=0.4256$ gauss/mA $\pm 0.02\%$ and k=0.54 gauss/mA $\pm 0.2\%$. In order to measure the field at one point 5 to 10 cycles are required. An account of the method of measurement is given. Card 1/2

The change in field in ...

S/120/62/000/004/036/047 E039/E420

It is shown that the value of

$$\triangle = \frac{B_{10} - B_{res}}{B_{res}} \cdot 100\%$$

varies with the azimuthal distance ℓ from the centre of the magnet block. B_{10} is the value of the field immediately before the beginning of a cycle when the cycling rate is 10 cycles/min. Bres is the residual field. At the edge of the magnet $\ell = 10.5\%$ and decreases practically to zero at the centre. With an increase in the maximum field in the cycle Bres and $\ell = 10.5\%$ and being established after 15 to 20 cycles. The mean square of the scatter of $\ell = 10.5\%$ from cycle to cycle does not exceed 0.04 gauss at the edge of the magnet and is less at the middle. The dependence of the field on cycling rate is also investigated. There are 2 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki GKAE (Institute of Theoretical and Experimental

SUBMITTED: M

March 31, 1962

Physics GKAE)

Card 2/2

Agapkan, I.I., Andreyev, V.N., Veselov, M.A., Gol'din, L.L., Luzin, V.N., Radkevich, I.A., Sokolovskiy, V.V., Stadnikov, A.G.

TITLE: Investigation and correction of the horizontal

component of the low-induction magnetic field of the

proton synchrotron

PERIODICAL: Pribory i tekhnika eksperimenta / no.4, 1962, 223-229

TEXT: Permalloy probes modulated at 10 kcs were used to measure the position of the neutral plane of the magnetic field. It was found that the distortion of the neutral plane in the residual field was determined mainly by the neutral pole. This distortion decreased as the excitation of the C-blocks was increased. Due to hysteresis effects, the measurements had to be carried out under operating conditions. A description of the probe and its associated circuits is given. The measurements show that 67 of the magnets have a deviation of the neutral plane in the range + 0.5 mm, 16 magnets have 0.5 to 0.6 mm, 3 magnets 0.6 to 0.7 mm Card 1/2

5/120/62/000/004/042/047 E140/E420

Investigation and correction ...

and 12 magnets > 0.7 mm. The average error of measurement is + 0.17 mm. The method of correcting the neutral plane errors by means of windings on the neutral poles is described. There are 11 figures.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
GKAE (Institute of Theoretical and Experimental

Physics GKAE)

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